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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 32322.1-2015

**Rolling bearings-Profiled rail guides for linear motion rolling
bearings-Part 1: Boundary dimensions and tolerances for
series 1, 2 and 3**

滚动轴承 直线运动滚动支承成型导轨副 第1部分：1、2、3系列外形尺寸和公差
(English Translation)

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Foreword

GB/T 32322 "Rolling bearings - Profiled rail guides for linear motion rolling bearings" consists of 2 parts.

- Part 1. Boundary dimensions and tolerances for series 1, 2 and 3;
- Part 2. Boundary dimensions and tolerances for series 4 and 5.

This Part is Part 1 of GB/T 32322.

This Part is drafted in accordance with the rules given in GB/T 1.1-2009.

This Part uses translation method to identically adopt ISO 12090-1.2011 "Rolling bearings - Profiled rail guides for linear motion rolling bearings - Part 1. Boundary dimensions and tolerances for series 1, 2 and 3".

China's documents that are identical to the international documents normatively referenced in this Part are as follows.

- GB/T 4199-2003 Rolling bearings - Tolerances - Part 1. Terms and definitions (ISO 1132-1, MOD)
- GB/T 6930-2001 Rolling bearings - Vocabulary (ISO 5593.1997, IDT)
- GB/T 7811-2015 Rolling bearings - Symbols for quantities (ISO 15241.2012, IDT)
- GB/T 29719-2013 Rolling bearings - Linear motion rolling bearings - Vocabulary

(ISO 24393.2008, IDT)

This Part is proposed by China Machinery Industry Federation.

This Part shall be under the jurisdiction of National Technical Committee on Rolling Bearing of Standardization Administration of China (SAC/TC 98).

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Rolling bearings - Profiled rail guides for linear motion

rolling bearings - Part 1. Boundary dimensions and

tolerances for series 1, 2 and 3

1 Scope

This Part of GB/T 32322 establishes the boundary dimensions and tolerances for series 1, 2 and 3 of linear motion rolling bearings, profiled rail guides.

These bearings consist of profiled rails with carriages, which can support forces from all perpendicular directions and moments around all axes and consist of recirculating rolling elements. The internal design of these profiled rail guides is at the discretion of the manufacturer.

An assembly, as specified by the manufacturer, can comprise one or more carriages on a profiled rail. Therefore, the interchange or combination of these elements can only be carried out within the limits permitted by the manufacturer.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 1132-1 Rolling bearings - Tolerances - Part 1. Terms and definitions

ISO 5593 Rolling bearings - Vocabulary

ISO 15241 Rolling bearings - Symbols for quantities

ISO 24393 Rolling bearings - Linear motion rolling bearings - Vocabulary

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 1132-1, ISO 5593, ISO 24393 and the following apply.

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